



23 AUG 1972


REPLY TO  
ATTN OF: INYE

SUBJECT: Information Science Training Report, RCS: DIA-OA-T2

TO: Director, Central Intelligence Agency  
ATTN: IHC Support Staff

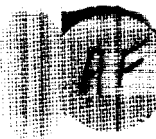
1. Reference IHC-D-113.5/12, 21 June 1972, subject as above.
2. Attached is the requested input for the Education and Training Annex to the Fifth Annual Report (AR-5) of the IHC.
3. Separate identification of user and system personnel in training in the various courses cannot be accomplished. Statistics of this nature are not recorded.
4. Since the criteria for awarding academic degrees differ at the various universities, the detail requested in chart 4 for full time university students cannot be accomplished. Course content in each university case is widely divergent, therefore, an analysis to determine which of the chart 4 titles are applicable is not feasible.

FOR THE COMMANDER

  
WILLIAM F. SCHULZE  
Deputy, Data Management Br  
Systems Management Division

1 Atch  
Fifth Annual Report (AR-5)  
of the Education and Training  
Input

On file USAF release  
instructions apply.



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Narrative Portion of the Air Force Submission for the  
Education and Training Annex to the Fifth Annual  
Report (AR-5) for FY 72

1. In accordance with the guidance contained in the attachments to IHC-D-113.5/12, 21 June 1972, Information Science Training Report, RCS: DIA-OA-T2, the following information is provided:

a. Progress in Information Science Education Program -  
Emphasizing Changes, (Air Force).

(1) The Armed Forces Air Intelligence Training Center (AFAITC) provided training for 385 students in Information Science. The AFAITC program provides the Intelligence Data Handling System (IDHS) organization instruction for analysts, programmers, and computer operators on the various data management systems utilized in the IDHS community. During FY 72, these systems included Modular Data Systems (MODS) (formerly Small Scale Formatted File Systems), 1410 Mark III Formatted File System, the 360 Formatted File System, and the DIA developed Machine Independent Data Management System (MIDMS). Additionally, courses for the intelligence analysts (users) are presented to familiarize the analysts with the concepts and capabilities of the various intelligence data handling systems.

(2) Twenty courses were offered at the site of the user organization by the mobile training teams of AFAITC. A total of 1123 students received instruction from the mobile training team effort. Of this total 368 were for Air Force personnel.

(3) The utilization of "live" files from the field units has significantly enhanced the course curriculum taught at AFAITC. This concept of introducing the student to the "real-life" environment immeasurably strengthens the student's learning process.

(4) Intelligence students are provided an understanding and working knowledge of computer concepts and capabilities as applied to intelligence functions in the first four blocks of instruction incorporated in the revised basic air intelligence course. Classroom instruction and practicals are designed to insure the students are completely familiar with ADP fundamentals, computer programming techniques and the various formatted file systems related to IDHS. Subsequent blocks of instruction are integrated with automated data processing applications to assist the student and insure each student effectively utilizes and understands the automated techniques learned in the earlier blocks of instruction to simulate the 'real world' aspect related to the intelligence effort.

b. Value of Information Science Training Received, (Air Force).  
The training in Information Science given by AFAITC proved invaluable to the Intelligence Data Handling System as well as to Air Force Intelligence. The enhanced curriculum at AFAITC has made this school an even more valuable asset to the Air Force.

The AFIT program has continued to supply the Air Force with some extremely valuable personnel trained in Information Science. In the extremely dynamic and complex field of Information, no amount of experience can substitute for a basic and thorough education.

c. Hiring of Experienced Personnel. The Air Force Intelligence Data Handling System is basically run by the military. During FY72, due to the austere economic conditions experienced, IDHS activities were able to be extremely selective in hiring experienced personnel at the grade scale authorized.

d. Education and Training Plans for FY 73.

(1) Proposed Training.

(a) During FY 73 the Air Force, through the Armed Forces Air Intelligence Training Center, will continue to conduct training for the DIA developed Machine Independent Data Management System (MIDMS). AFAITC will offer three courses to support this requirement:

MIDMS Concepts/Capabilities	24 hrs.
MIDMS Operations/Specifications	90 hrs.
MIDMS Teleprocessing	30 hrs.

Instruction for MIDMS will be presented at the site of the user by the mobile training teams.

(b) The Armed Forces Air Intelligence Training Center (AFAITC) will continue to provide Intelligence Data Handling Systems (IDHS) training to officer and airmen in the basic intelligence courses and to personnel in the DoD intelligence community who have requested training from the AFAITC Mobile Training Teams.

(2) Personnel Programmed for Information Science Training.

(a) AFAITC has, 537 Air Force, 354 Navy, 562 Army and 7 Air Force Reserve personnel scheduled for Air Intelligence training in FY 73. This includes a substantial amount of training in Information Sciences. In addition to this approximately 400 Air Force students will be trained in current IDHS data management systems. Projected training requirement reflect a increase of 127 personnel scheduled for FY 73.

(b) The graduate level full time college program for Air Force Intelligence personnel will train 8 Air Force officer personnel in FY 73.

(c) No records are kept of part-time University programs; therefore, no estimates of the number of students programmed is available.

(3) Budget Estimate for FY 73 Information Science Training.

(a) AFAITC Information Science Training \$1,142,000.\*

\*This budget supports IDHS training for the entire DoD.

(b) AFIT Graduate Level Information Science  
Program for Intelligence, \$211,000.\*\*

\*\*This sum is approximate due to increase in tuition fees  
levied by civilian educational institutions during FY 73.

APPENDIX 2

University courses taken on a part-time basis and number of students.

No records are kept of Air Force part-time university students taking courses in Information Science.



## APPENDIX 3

Our Agency Courses and Number of Students

AFAITC - Air Force

<u>Course</u>	<u>Course Hours</u>	<u>No. of Students</u>
Intel Data Handling Systems	60	2
Document Analysis Index/Retrieval	180	1
Intro to ADP as Applied to Intel	60	12
Small Scale COBOL FFS Processing	70	0
IDHS 1410 FFS Ops and Specs	90	3
ADP as Applied to Intelligence	60	68
Intelligence Oriented EDP	30	0
1410 FFS System Operation	30	0
1410 FFS for Intel Analysts	30	9
MIDMS Concepts/Capabilities	24	0
MIDMS Operations/Specifications	90	5
1410 FFS Ops and Specs	60	1
1410 FFS Ops and Specs II	90	0
Document Index & Retrieval Procedures	90	3
Small Scale COBOL FFS Gen and Maint	36	41
Small Scale COBOL Data Ret & Output	36	37
Small Scale FFS Output	30	18
Small Scale for Intel Analysts	30	14
360 FFS Ops and Specs	90	34
360 FFS Concepts and Capabilities	30	64
360 FFS Quick Inquiry Processor	30	37

APPENDIX 3  
(Continued)

MODS Sys Operating Procedures	12	0
MODS Concepts and Capabilities	18	13
MODS Data Retrieval Techniques	24	11
MODS Data Mgt Techniques	36	13

APPENDIX 4

Other Government Agencies' Courses and Number of Students

National Military Command Systems Support Center - Air Force

<u>Course</u>	<u>Course Hours</u>	<u>No. of Students</u>
NIPS Course 1	30	2
NIPS Course 2	30	1
Operating Systems Programmers Course	138	2

APPENDIX 5

Manufacturers, Contractors and Professional Societies  
Courses and Number of Students

The Air Force maintained no central records for Air Force Intelligence personnel attending subject courses.

CHART I STUDENT COMPARISON FY-72 WITH FY-71

ATTACHMENT B

COMMUNITY ORGANIZATIONS	INDIVIDUALS *				STUDENTS (ENROLLMENT)				STUDENTS (USER & SYSTEM PERSONNEL)			
	FY-71	PERCENT MILITARY FY-71	FY-72	PERCENT MILITARY FY-72	FY-71	PERCENT MILITARY FY-71	FY-72	PERCENT MILITARY FY-72	FY-71	PERCENT MILITARY FY-71	FY-72	PERCENT MILITARY FY-72
CIA	887	0			1,255	0			<u>959**</u> 296	<u>0</u> 0		
STATE	229	0			247	0			<u>144</u> 103	<u>0</u> 0		
DIA	244	36			315	37			<u>104</u> 211	<u>29</u> 40		
NSA	2,657	17			3,656	17			<u>2,029</u> 1,627	<u>19</u> 16		
FBI	23	0			165	0			165	0		
ARMY	358	60			477	60			<u>214</u> 263	<u>45</u> 55		
NAVY	409	80			435	75			<u>97</u> 338	<u>82</u> 75		
AF	303	78	312	90	406	89	391	93	<u>144</u> 262	<u>81</u> 93	391	93
TOTAL												
GRAND TOTAL												

\* TOTAL INDIVIDUALS IS A SMALLER NUMBER THAN TOTAL STUDENTS SINCE SOME INDIVIDUALS TOOK TWO OR MORE COURSES AND ARE COUNTED AS A STUDENT FOR EACH COURSE. FOR EXAMPLE, ONE INDIVIDUAL TAKING THREE COURSES WOULD BE REPORTED AS THREE STUDENTS.

\*\*STUDENTS SHOWN ABOVE THE LINE ARE USERS AND THOSE SHOWN BELOW ARE SYSTEM PERSONNEL

ATTACHMENT

CHART 2 STUDENT COMPOSITION FY-72 BY PROFESSIONAL LEVELS: CLERICAL, JUNIOR, MID-CAREER, AND SENIOR

AGENCY	MILITARY				CIVILIAN				TOTALS		
	E1-5	E6-9 O1-2	O3-5	O6 & UP	GS 1-6	GS 7-II	GS 12-14	GS 15 & UP	U	S	TOTAL
CIA											
STATE											
DIA											
NSA											
FBI											
ARMY											
NAVY											
AF	112	128	123	0	0	17	11	0	-	-	391
TOTAL											

U=USER PERSONNEL

S=SYSTEM PERSONNEL

ATTACHMENT D

CHART 3 COURSES AND STUDENTS BY SOURCE AND CATEGORY FOR FY-72

COURSES

	ORIENTATION	SYSTEM ANALYSIS & DESIGN	COMPUTER PROGRAMMING	APPLICATIONS	METHODS & TECHNIQUES	TOTAL
UNIVERSITIES	0	0	0	0	0	0
OWN GOV'T AGENCY	11	0	0	5	9	25
OTHER GOV'T AGENCIES	0	0	1	2	0	3
MANUFACTURERS & CONTRACTORS	0	0	0	0	0	0
TOTAL*	11	0	1	7	9	28

STUDENTS

	ORIENTATION	SYSTEM ANALYSIS & DESIGN	COMPUTER PROGRAMMING	APPLICATIONS	METHODS & TECHNIQUES	TOTAL
UNIVERSITIES	0	0	0	0	0	0
OWN GOV'T AGENCY	197	0	0	61	128	386
OTHER GOV'T AGENCIES	0	0	2	3	0	5
MANUFACTURERS & CONTRACTORS	0	0	0	0	0	0
TOTAL*	197	0	2	64	128	391

\* FULL-TIME UNIVERSITY COURSES NOT INCLUDED

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DISTRIBUTION OF COURSES AND STUDENTS BY ORGANIZATION FOR FY-72

COURSES	CIA	STATE	DIA	NSA	FBI	ARMY	NAVY	AF	ALL ORG
SOURCE								$\frac{41}{59}$	
UNIVERSITY	$\frac{50}{37} \%$							$\frac{25}{36}$	
OWN GOV'T AGENCY								$\frac{3}{5}$	
OTHER GOV'T AGENCIES								$\frac{0}{0}$	
MANUFACTURERS & CONTRACTORS									
CATEGORY ORIENTATION									
SYSTEM ANALYSIS & DESIGN									
COMPUTER PROGRAMMING									
APPLICATION									
METHODS & TECHNIQUES									
STUDENTS								$\frac{8}{2}$	
SOURCE								$\frac{386}{97}$	
UNIVERSITIES								$\frac{5}{1}$	
OWN GOV'T AGENCY								$\frac{0}{0}$	
OTHER GOV'T AGENCIES									
MANUFACTURERS & CONTRACTORS									
CATEGORY ORIENTATION									
SYSTEM ANALYSIS & DESIGN									
COMPUTER PROGRAMMING									
APPLICATION									
METHODS & TECHNIQUES									

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 AN EXAMPLE OF HOW TO REPORT THE ABSOLUTE NUMBER AND THE PERCENTAGE

FIGURE OF STUDENTS AS REQUESTED IN PARAGRAPH 2.b (5) OF THIS MEMORANDUM.



CHART 5 STUDENTS BY AGENCY AND SOURCE FOR FY-72

	UNIVERSITIES	OWN GOV'T AGENCY	OTHER GOV'T AGENCIES	MANUFACTURERS & CONTRACTORS	TOTAL	FULL TIME STUDENTS	GRAND TOTAL
CIA							
STATE							
DIA							
NSA							
FBI							
ARMY							
NAVY							
AF	0	386	5	0	391	8	399
TOTAL							